

What is claimed is:

1 1. A data communication system having data sending and
2 receiving terminals, said system comprising:

3 at the data receiving terminal

4 (a) a received-data quality discriminating section for
5 discriminating whether or not data to be received from the data
6 sending terminal satisfies a predetermined accumulation
7 quality;

8 (b) an alternative-data sending requesting section for,
9 if the received data of a particular time section does not
10 satisfy the accumulation quality as the result of
11 discrimination by said received-data quality discriminating
12 section, requesting the data sending terminal to send
13 alternative data satisfying the accumulation quality for the
14 data of the particular time section;

15 (c) a received-data accumulating section for
16 accumulating the received data as judged satisfying the
17 accumulation quality by said received-data quality
18 discriminating section, and the alternative data as sent from
19 the data sending terminal in response to the request by said
20 alternative-data sending requesting section;

21 at the data sending terminal

22 (d) an alternative-data sending request receiving
23 section for receiving, from said alternative-data sending
24 requesting section of the data receiving terminal, the request
25 for sending of alternative data satisfying the accumulation

26 quality;

27 (e) a sending-data accumulating section for accumulating
28 data to be sent to the data receiving terminal as alternative
29 data to be sent to the data receiving terminal in response to
30 the sending request from the data receiving terminal; and

31 (f) an alternative-data sending section for, upon
32 receipt of the sending request by said alternative-data sending
33 request receiving section, obtaining alternative data
34 satisfying the accumulation quality from accumulated contents
35 of said sending-data accumulating section and then sending the
36 obtained alternative data to the data receiving terminal.

1 2. A data receiving terminal for receiving data from
2 a data sending terminal, comprising:

3 (a) a received-data quality discriminating section for
4 discriminating whether or not data to be received from the data
5 sending terminal satisfies a predetermined accumulation
6 quality;

7 (b) an alternative-data sending requesting section for,
8 if the received data of a particular section does not satisfy
9 the accumulation quality as the result of discrimination by
10 said received-data quality discriminating section, requesting
11 the data sending terminal to send alternative data satisfying
12 the accumulation quality for the data of the particular
13 section; and

14 (c) a received-data accumulating section for
15 accumulating the received data as judged satisfying the

16 accumulation quality by said received-data quality
17 discriminating section, and the alternative data as sent from
18 the data sending terminal in response to the request by said
19 alternative-data sending requesting section.

1 3. A data receiving terminal according to claim 2,
2 wherein said alternative-data sending requesting section is
3 a differential-data sending requesting section for requesting
4 differential data satisfying the accumulating quality as the
5 alternative data by combining the data of a section
6 unsatisfying the accumulation quality with the already
7 received data.

1 4. A data receiving terminal according to claim 2,
2 wherein said received-data quality discriminating section
3 discriminates the accumulation quality of the received data
4 based on sending-data quality information about the quality
5 of data to be sent from the data sending terminal.

1 5. A data receiving terminal according to claim 2,
2 wherein said received-data quality discriminating section
3 previously receives from the data sending terminal quality kind
4 information about the kind of quality of data to be sent from
5 the data sending terminal, and then determines a satisfactory
6 accumulation quality based on said quality kind information.

1 6. A data sending terminal for sending data to a data

2 receiving terminal, comprising:

3 (a) an alternative-data sending request receiving
4 section for receiving a sending request, for alternative data
5 satisfying the accumulation quality, which is transmitted from
6 a data receiving terminal when the data receiving terminal
7 determines that received data of a particular time section does
8 not satisfy a predetermined accumulation quality;

9 (b) a sending-data accumulating section for accumulating
10 data to be sent to the data receiving terminal as alternative
11 data to be sent to the data receiving terminal in response to
12 the sending request from the data receiving terminal; and

13 (c) an alternative-data sending section for, upon
14 receipt of the sending request by said alternative-data sending
15 request receiving section, obtaining alternative data
16 satisfying the accumulation quality from accumulated contents
17 of said sending-data accumulating section and then sending the
18 obtained alternative data to the data receiving terminal.

1 7. A data sending terminal according to claim 6,
2 wherein:

3 said sending-data accumulating section is a
4 differential-data accumulating section for accumulating
5 differential data that is able to form sending data of a
6 different quality as combined with the already sent data; and

7 said alternative-data sending section is a
8 differential-data sending section for, upon receipt of the
9 sending request of differential data satisfying the

10 accumulation quality, as combined with the already received
11 data for the data of a section satisfying the accumulation
12 quality, from the data receiving terminal, obtaining the
13 differential data from said differential-data accumulation
14 section and then sending the obtained differential data to the
15 data receiving terminal.

1 8. A data sending terminal according to claim 6, further
2 comprising a sending-data quality information sending section
3 for sending to the data receiving terminal sending-data quality
4 information based on which the accumulation quality is to be
5 discriminated at the data receiving terminal.

1 9. A data sending terminal according to claim 6, further
2 comprising a quality kind information sending section for
3 previously sending, to the data receiving terminal, quality
4 kind information on the data able to be sent to the data
5 receiving terminal, based on which information the
6 satisfactory accumulation quality is to be determined at the
7 data receiving terminal.

1 10. A data sending terminal according to claim 6,
2 further an accumulation control section for deleting the
3 sending data, which is accumulated in said sending-data
4 accumulating section, from the sending data having lapsed a
5 predetermined time.

1 11. A data receiving terminal for receiving data from
2 a data sending terminal, comprising:

3 (a) a received-data quality discriminating section for
4 discriminating whether or not received data satisfies a
5 predetermined quality; and

6 (b) an alternative-data sending requesting section for,
7 if the received data of a particular time section does not
8 satisfy the predetermined quality as the result of
9 discrimination by said received-data quality discriminating
10 section, requesting a data sending terminal to send alternative
11 data satisfying the predetermined quality for the data of the
12 particular time section.

1 12. A data sending terminal for sending data to a data
2 receiving terminal, comprising:

3 (a) an alternative-data sending request receiving
4 section for receiving a request for sending of alternative data
5 satisfying a predetermined quality for data of a particular
6 time section to be sent from the data receiving terminal if
7 the received data of the particular time section does not
8 satisfy as the result of discrimination at the data receiving
9 terminal; and

10 (b) an alternative-data sending section for, upon
11 receipt of the sending request by said alternative-data sending
12 request receiving section, sending alternative-data
13 satisfying the predetermined quality to the data receiving
14 terminal.